

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:

**April  
2011**

**Edmund G. Brown Jr.**  
Governor  
**State of California**

**John Laird**  
Secretary for Resources  
**The Resources Agency**

**Mark Cowin**  
Director  
**Department of Water Resources**

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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**JOHN LAIRD, Secretary for Resources**

Department of Water Resources  
**MARK COWIN, Director**

Department of Water Resources  
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The organization shown above represents staff and positions relevant to this report as of publication date on October 2013. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following activities highlight actions that affected State Water Project operations during April 2011:

Statewide precipitation was about 135 percent of average for the 2010 - 2011 water-year through April 30. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at:  
[“http://cdec.water.ca.gov/snow\\_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State.

Snow pack water content for April 2011 was about 185 percent of average compared to 140 percent at this time in 2010. This was about 145 percent of the April 1 average, the normal date of maximum accumulation.

Cumulative unimpaired runoff for the Sacramento River Region for the 2010 - 2011 water-year was 9.9 maf, 121 percent of average. Statewide runoff for the 2010 - 2011 water-year was 130 percent of average.

Statewide reservoir storage was 110 percent of average to date. Total storage in major SWP reservoirs at the end of April was about 4.99 maf compared to 3.49 maf at this time in 2010. On April 30, end-of-month storage at Lake Oroville was about 3.30 maf, as compared to 2.11 maf at this time in 2010. The State share of San Luis Reservoir's end-of-month storage was about 1.06 maf, as compared with 813 taf at this time in 2010. The combined storage in SWP's southern reservoirs was about 628 taf, compared with about 565 taf at this time in 2010.

SWP water deliveries to date through April were about 1.2 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2010 were 398 taf.

COA accounting remained suspended at zero in April. Conditions in the Delta remained in “Excess” with restricted operations. Excess conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports.

On April 13, a tractor was stolen and driven into the Aqueduct at mile post 271.3. The tractor was removed with no further incidents. Total spill at Lake Oroville in April was 161,716 af. Storage at Lake Oroville increased from 2.8 maf to 3.3 maf. There were four days in April when Oroville storage was not encroached. When the storage is greater than the allowed flood space, the Lake is temporarily “encroached” and is providing intended flood protection by buffering the effects of heavy runoff from the Feather River basin. During encroachment, Oroville releases are governed by U.S. Army Corps of Engineers rules. There were seven measurable earthquakes during April, within the vicinity of the SWP; no facilities were found to meet inspection criteria.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**April 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Mar 31	5002.84	23,352									
1	5003.00	23,504	152	10	0	0	138	3	151	228	
2	5003.26	23,752	248	10	0	0	210	3	223	348	
3	5003.28	23,771	19	10	0	0	217	3	230	240	
4	5003.24	23,733	-38	10	0	0	204	3	217	198	
5	5003.24	23,733	0	10	0	0	204	3	217	217	
6	5003.22	23,714	-19	10	0	0	197	3	210	200	
7	5003.16	23,656	-58	10	0	0	178	3	191	162	
8	5003.10	23,599	-57	10	0	0	161	3	174	145	
9	5003.03	23,532	-67	10	0	0	145	3	158	124	
10	5002.96	23,466	-66	10	0	0	129	3	142	109	
11	5002.96	23,466	0	10	0	0	129	3	142	142	
12	5003.00	23,504	38	10	0	0	138	3	151	170	
13	5003.03	23,532	28	10	0	0	145	3	158	172	
14	5003.03	23,532	0	10	0	0	145	3	158	158	
15	5003.03	23,532	0	10	0	0	145	3	158	158	
16	5003.03	23,532	0	10	0	0	145	3	158	158	
17	5003.03	23,532	0	10	0	0	145	3	158	158	
18	5003.03	23,532	0	10	0	0	145	3	158	158	
19	5003.78	24,252	720	10	0	0	421	3	434	797	
20	5003.03	23,532	-720	169	0	0	145	3	317	-46	
21	5003.43	23,915	383	148	0	0	281	3	432	625	
22	5003.43	23,915	0	148	0	0	281	3	432	432	
23	5003.43	23,915	0	148	0	0	281	3	432	432	
24	5003.43	23,915	0	148	0	0	281	3	432	432	
25	5003.43	23,915	0	148	0	0	281	4	433	433	
26	5002.99	23,494	-421	141	0	0	136	4	281	69	
27	5002.95	23,456	-38	141	0	0	127	4	272	253	
28	5002.93	23,437	-19	141	0	0	123	4	268	258	
29	5002.91	23,418	-19	141	0	0	119	4	264	254	
30	5002.85	23,361	-57	141	0	0	106	4	251	222	
Total cfs-days				---	1,804	0	0	5,502	96	7,402	
Total ac-ft				9	3,578	0	0	10,913	190	14,681	
										14,690	

**Table 2. Frenchman Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**April 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Mar 31	5570.60	32,036									
1	5571.05	32,543	507	2	0	0	0	4	6	262	
2	5571.70	33,284	741	2	0	0	0	4	6	380	
3	5572.24	33,908	624	2	0	0	0	4	6	321	
4	5572.67	34,410	502	2	0	0	0	4	6	259	
5	5573.22	35,060	650	2	0	0	0	4	6	334	
6	5573.71	35,645	585	2	0	0	0	4	6	301	
7	5574.21	36,249	604	2	0	0	0	4	6	311	
8	5574.56	36,675	426	2	0	0	0	4	6	221	
9	5574.81	36,982	307	2	0	0	0	4	6	161	
10	5575.09	37,327	345	2	0	0	0	4	6	180	
11	5575.36	37,662	335	2	0	0	0	4	6	175	
12	5575.65	38,024	362	2	0	0	0	4	6	189	
13	5575.91	38,350	326	2	0	0	0	4	6	170	
14	5576.18	38,691	341	2	0	0	0	4	6	178	
15	5576.49	39,084	393	2	0	0	0	4	6	204	
16	5576.73	39,391	307	2	0	0	0	4	6	161	
17	5577.26	40,072	681	2	0	0	0	4	6	349	
18	5577.95	40,971	899	2	0	0	0	4	6	459	
19	5578.58	41,802	831	2	0	0	0	4	6	425	
20	5579.08	42,470	668	2	0	0	0	4	6	343	
21	5579.64	43,225	755	2	0	0	0	4	6	387	
22	5580.04	43,769	544	2	0	0	0	5	7	281	
23	5580.39	44,250	481	2	0	0	0	5	7	250	
24	5580.74	44,733	483	2	0	0	0	5	7	251	
25	5581.07	45,192	459	2	0	0	0	5	7	238	
26	5581.35	45,832	640	2	0	0	0	5	7	330	
27	5581.63	45,976	144	2	0	0	0	5	7	80	
28	5581.88	46,329	353	2	0	0	0	5	7	185	
29	5582.18	46,754	425	2	0	0	0	5	7	221	
30	5582.38	47,038	284	2	0	0	0	5	7	150	
Total cfs-days				---	60	0	0	129	189	7,752	
Total ac-ft				15,002	119	0	0	255	374	15,376	

1/ Last Chance Creek Water District.

**Table 3. Lake Davis**

## Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**April 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract					
Mar 31	5768.58	60,639									
1	5768.62	60,774	135	25	0.0	0	0	12	37	105	
2	5768.76	61,246	472	25	0.0	0	0	12	37	275	
3	5768.88	61,653	407	25	0.0	0	0	12	37	242	
4	5768.96	61,925	272	25	0.0	0	0	12	37	174	
5	5769.09	62,369	444	25	0.0	0	0	12	37	261	
6	5769.24	62,883	514	25	0.0	0	0	12	37	296	
7	5769.38	63,364	481	25	0.0	0	0	12	37	279	
8	5769.46	63,641	277	30	0.0	0	0	12	42	181	
9	5769.52	63,848	207	35	0.0	0	0	12	47	151	
10	5769.56	63,987	139	35	0.0	0	0	12	47	117	
11	5769.63	64,230	243	35	0.0	0	0	12	47	169	
12	5769.70	64,473	243	35	0.0	0	0	12	47	169	
13	5769.77	64,683	210	35	0.0	0	0	12	47	153	
14	5769.82	64,892	209	35	0.0	0	0	12	47	152	
15	5769.88	65,102	210	35	0.0	0	0	12	47	153	
16	5769.98	65,453	351	35	0.0	0	0	12	47	224	
17	5770.19	66,192	739	35	0.0	0	0	12	47	419	
18	5770.58	67,579	1,387	42	0.0	0	0	12	54	753	
19	5770.84	68,512	933	50	0.0	0	0	12	62	532	
20	5771.06	69,306	794	63	0.0	0	0	12	75	475	
21	5771.31	70,216	910	75	0.0	0	0	12	87	546	
22	5771.44	70,691	475	98	0.0	0	0	12	110	349	
23	5771.54	71,058	367	110	0.0	0	0	12	122	307	
24	5771.64	71,426	368	130	0.0	0	0	12	142	327	
25	5771.76	71,868	442	150	0.0	0	0	12	162	385	
26	5771.84	72,164	296	150	0.0	0	0	12	162	311	
27	5771.90	72,387	223	150	0.0	0	0	12	162	274	
28	5771.99	72,721	334	150	0.0	0	0	12	162	330	
29	5772.03	72,870	149	150	0.0	0	0	12	162	237	
30	5772.08	73,056	186	150	0.0	0	0	12	162	256	
Total cfs-days				---	1,988	0	0	352	2,340	8,601	
Total ac-ft				12,417	3,943	0	0	699	4,642	17,059	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

April 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Mar 31	852.35	2,839,993										
1	852.91	2,847,571	7,578	12,806	0	0	0	146	18,293	31,245	0	38,823
2	854.09	2,863,585	16,014	11,721	0	0	0	130	15,145	26,996	0	43,010
3	855.37	2,881,027	17,442	11,047	0	0	0	123	16,798	27,968	0	45,410
4	856.32	2,894,021	12,994	13,771	0	0	0	167	13,306	27,244	0	40,238
5	857.53	2,910,631	16,610	15,414	0	0	0	154	6,529	22,097	0	38,707
6	858.65	2,926,065	15,434	14,699	0	0	0	88	7,140	21,927	0	37,361
7	859.63	2,939,617	13,552	14,318	0	0	0	177	8,033	22,528	0	36,080
8	860.35	2,949,601	9,984	15,996	0	0	0	125	6,802	22,923	0	32,907
9	860.84	2,956,410	6,809	16,059	0	0	0	126	6,744	22,929	0	29,738
10	861.52	2,965,878	9,468	16,018	0	0	0	119	281	16,418	0	25,886
11	862.38	2,977,882	12,004	16,048	0	0	0	126	0	16,174	0	28,178
12	863.34	2,991,322	13,440	11,734	0	0	0	164	0	11,898	0	25,338
13	864.43	3,006,634	15,312	10,294	0	0	0	135	0	10,429	0	25,741
14	865.56	3,022,566	15,932	6,509	0	0	0	38	0	6,547	0	22,479
15	866.32	3,033,315	10,749	11,079	0	0	0	60	0	11,139	0	21,888
16	866.96	3,042,387	9,072	11,478	0	0	0	113	0	11,591	0	20,663
17	868.27	3,061,019	18,632	11,229	0	0	0	113	0	11,342	0	29,974
18	870.63	3,094,785	33,766	11,598	0	0	0	107	0	11,705	0	45,471
19	872.85	3,126,789	32,004	15,382	0	0	0	38	0	15,420	0	47,424
20	874.50	3,150,727	23,938	17,982	0	0	0	108	0	18,090	0	42,028
21	876.62	3,181,673	30,946	17,369	0	0	0	140	0	17,509	0	48,455
22	878.39	3,207,674	26,001	18,492	0	0	0	133	2,182	20,807	0	46,808
23	879.53	3,224,502	16,828	19,772	0	0	0	102	2,066	21,940	0	38,768
24	880.82	3,243,617	19,115	19,800	0	0	0	95	1,091	20,986	0	40,101
25	882.13	3,263,117	19,500	18,973	4	0	0	47	3,273	22,297	0	41,797
26	883.20	3,279,107	15,990	19,329	6	0	0	127	5,091	24,553	0	40,543
27	883.86	3,288,997	9,890	16,037	8	0	0	183	9,810	26,038	0	35,928
28	884.42	3,297,406	8,409	15,329	8	0	1	168	11,504	27,010	0	35,419
29	884.78	3,302,820	5,414	14,093	8	0	1	168	13,587	27,857	0	33,271
30	884.94	3,305,228	2,408	14,249	8	1	1	264	14,041	28,564	0	30,972
<b>Total</b>		<b>465,235</b>	<b>438,625</b>	<b>42</b>	<b>1</b>	<b>3</b>	<b>3,784</b>	<b>161,716</b>	<b>604,171</b>	<b>0</b>	<b>1,069,406</b>	

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

**April 2011**

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Mar 31	23,979										
1	24,172	193	31,099	448	0	18,798	3	3	10,828	0	-1,722
2	23,805	-367	26,866	470	0	15,386	3	3	10,947	0	-1,364
3	23,771	-34	27,845	481	0	16,928	3	3	10,947	0	-479
4	24,002	231	27,077	482	0	19,548	3	3	6,702	0	-1,072
5	24,107	105	21,943	482	0	19,737	3	3	1,505	0	-1,072
6	23,767	-340	21,839	482	0	20,074	3	3	1,500	0	-1,081
7	24,064	297	22,351	484	0	20,264	3	3	1,436	0	-832
8	23,977	-87	22,798	486	0	20,719	3	3	1,436	0	-1,210
9	23,912	-65	22,803	486	0	20,582	3	3	1,436	0	-1,330
10	24,078	166	16,299	466	0	14,552	3	3	1,436	0	-605
11	23,811	-267	16,048	425	0	14,524	3	3	1,436	0	-774
12	23,875	64	11,734	486	0	7,677	3	3	1,440	0	-3,033
13	24,067	192	10,294	486	0	8,500	3	3	1,432	0	-650
14	24,094	27	6,509	486	0	5,568	3	3	1,428	0	34
15	24,088	-6	11,079	486	0	9,742	3	3	1,436	0	-387
16	24,063	-25	11,478	447	0	9,935	3	3	1,438	0	-571
17	24,016	-47	11,229	484	0	10,164	3	3	1,436	0	-154
18	23,683	-333	11,598	484	0	10,220	3	3	1,436	0	-753
19	23,608	-75	15,382	481	0	14,057	3	3	1,434	0	-441
20	24,638	1,030	17,982	481	0	14,881	3	3	1,454	0	-1,092
21	24,732	94	17,369	482	0	15,647	3	3	1,531	0	-573
22	24,330	-402	20,674	481	0	18,907	3	3	1,400	0	-1,244
23	24,662	332	21,838	481	0	20,028	3	3	1,303	0	-650
24	24,645	-17	20,891	482	0	19,416	3	3	1,303	0	-665
25	24,502	-143	22,246	481	0	21,015	3	3	1,305	0	-544
26	24,038	-464	24,420	481	0	23,194	3	3	1,311	0	-854
27	24,093	55	25,847	480	0	23,795	3	3	1,307	0	-1,164
28	24,093	0	26,833	481	0	24,705	3	3	1,305	0	-1,298
29	23,953	-140	27,680	482	0	26,252	2	3	1,311	0	-734
30	23,924	-29	28,290	481	0	26,629	0	4	1,309	0	-858
Total		-55	600,341	14,325	0	511,444	86	91	75,928	0	-27,172

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

April 2011

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Mar 31	131.71	38,070										
1	131.58	37,603	-467	18,798	0	0	0	0	18,843	0	-422	29,671
2	130.28	33,088	-4,515	15,386	0	0	0	0	18,843	0	-1,058	29,790
3	129.21	29,577	-3,511	16,928	0	0	0	0	18,823	0	-1,616	29,770
4	129.10	29,226	-351	19,548	0	0	0	0	18,724	0	-1,175	25,426
5	129.15	29,385	159	19,737	0	0	0	0	18,605	0	-973	20,110
6	129.36	30,058	673	20,074	0	0	0	0	18,605	0	-796	20,105
7	129.61	30,868	810	20,264	0	0	0	0	18,605	0	-849	20,041
8	130.93	35,312	4,444	20,719	0	0	0	0	15,610	0	-665	17,046
9	133.47	44,646	9,334	20,582	0	0	0	0	10,671	0	-577	12,107
10	134.30	47,910	3,264	14,552	0	0	0	0	10,691	0	-597	12,127
11	135.12	51,232	3,322	14,524	0	0	0	0	10,671	0	-531	12,107
12	135.07	51,026	-206	7,677	0	0	0	0	10,671	0	2,788	12,111
13	134.55	48,912	-2,114	8,500	0	0	0	0	10,671	0	57	12,103
14	133.33	44,105	-4,807	5,568	0	0	0	0	10,671	0	296	12,099
15	133.13	43,337	-768	9,742	0	0	0	0	10,671	0	161	12,107
16	133.04	42,994	-343	9,935	0	0	0	0	10,671	0	393	12,109
17	132.97	42,728	-266	10,164	0	0	0	0	10,671	0	241	12,107
18	132.93	42,576	-152	10,220	0	0	0	0	10,671	0	299	12,107
19	133.62	45,228	2,652	14,057	0	0	0	0	10,671	0	-734	12,105
20	134.14	47,274	2,046	14,881	0	0	0	0	12,853	0	18	14,307
21	133.92	46,405	-869	15,647	0	0	0	81	15,789	0	-646	17,320
22	133.87	46,208	-197	18,907	0	0	0	214	17,653	0	-1,237	19,053
23	134.02	46,800	592	20,028	0	0	9	264	18,605	0	-558	19,908
24	134.02	46,800	0	19,416	0	0	87	262	18,605	0	-462	19,908
25	133.80	45,932	-868	21,015	0	0	121	226	20,628	0	-908	21,933
26	133.61	45,189	-743	23,194	327	0	137	214	22,612	0	-647	23,923
27	133.45	44,568	-621	23,795	631	0	230	270	22,612	0	-673	23,919
28	133.45	44,568	0	24,705	850	0	264	320	22,612	0	-659	23,917
29	133.67	45,424	856	26,252	1,137	0	264	401	22,612	0	-982	23,923
30	133.89	46,286	862	26,629	1,502	0	413	520	22,612	0	-720	23,921
Total		8,216		511,444	4,447	0	1,525	2,772	481,252	0	-13,232	557,180

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

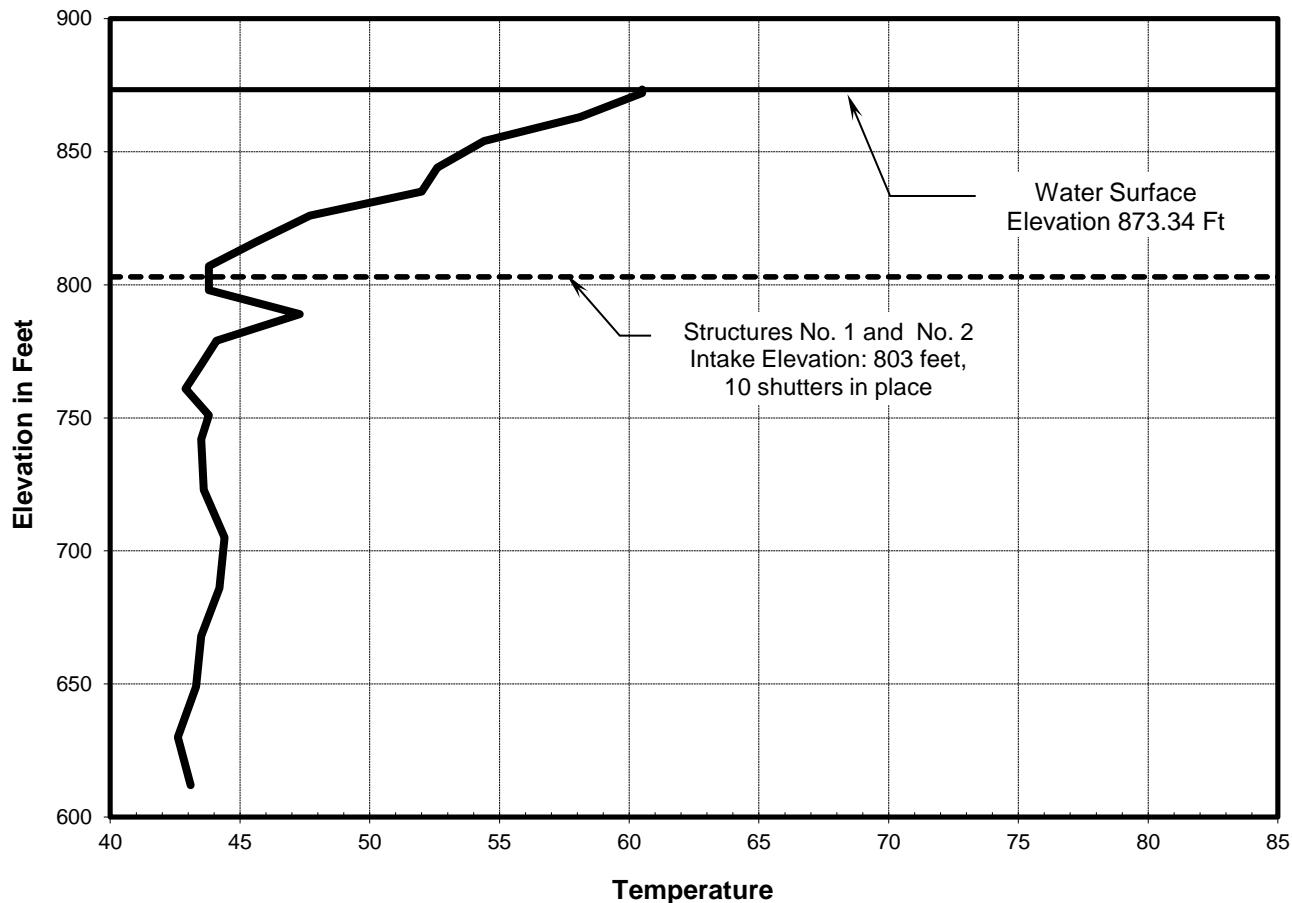
**Table 7. Oroville-Thermalito Complex**

Water Temperature Data

(in degrees Fahrenheit)

**April 2011**

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	51.2	49
2	52	49
3	51	49
4	50.8	50
5	51.4	49
6	51.7	49
7	51.3	49
8	50.3	49
9	50.7	49
10	50.6	48
11	51.1	48
12	52.3	48
13	51.6	48
14	52.2	47
15	52.4	48
16	53.1	49
17	52.9	49
18	53.3	48
19	62.9	48
20	53.6	48
21	53.2	47
22	53	48
23	51.1	49
24	50.9	49
25	51.6	48
26	51.9	49
27	51.4	51
28	51.5	51
29	51.9	51
30	51.5	52

**Lake Oroville Temperature Profile  
on April 20, 2011**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

April 2011

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Permit	Article 21	Article 56C	Settlement	
	No.		Mile								
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	581	45	90	47	92		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	0						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	92						
				Solano County Water Agency Fairfield / Vacaville 42"	182						
	2		17.00	Solano County Water Agency Central Solano	Stub	1/ 1	19	29			
	3A	Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		281						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	49						
				Solano County Water Agency Benicia	0						
3B	2	Cordelia Surge Tank	23.33			1	154	1	154		
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	1						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
	3B	Napa Terminal Tank	27.58	City of Napa	154	77					
			27.60	Napa County Flood Control & WCD American Canyon 1	77						

1/ Napa Co. FC&WCD Table A through Solano Co.'s turnout for delivery to American Canyon.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

April 2011

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	0	0	6,673	6,673	72	0	0	228
2	0	0	6,664	6,664	88	0	0	245
3	0	0	4,984	4,984	71	0	0	239
4	0	0	4,424	4,424	114	0	0	212
5	0	0	4,424	4,424	221	0	0	127
6	0	0	4,483	4,483	250	0	0	92
7	13	0	5,168	5,168	264	0	0	60
8	0	0	7,352	7,352	250	0	0	39
9	0	0	8,792	8,792	242	0	0	19
10	0	0	11,032	11,032	270	0	0	12
11	9	0	9,394	9,394	277	0	0	0
12	7	0	8,848	8,848	280	0	0	0
13	9	0	8,001	8,001	305	0	0	0
14	13	0	9,535	9,535	294	0	0	0
15	21	0	7,330	7,330	259	0	0	0
16	22	0	6,607	6,607	220	0	0	0
17	29	4	6,608	6,608	224	0	0	0
18	34	2	6,608	6,608	226	0	0	0
19	12	6	6,608	6,608	226	0	0	0
20	0	0	6,608	6,608	216	0	0	0
21	24	14	6,608	6,608	234	0	0	0
22	19	3	9,539	9,539	250	0	0	0
23	30	18	12,520	12,520	250	0	0	0
24	41	26	12,519	12,519	218	0	0	0
25	23	13	1,816	1,816	243	0	0	0
26	22	8	886	886	240	0	0	0
27	60	41	11,442	11,442	243	0	0	0
28	50	37	13,886	13,886	270	0	0	0
29	61	46	13,099	13,099	248	0	0	29
30	82	63	8,616	8,616	281	0	0	34
Total	581	281	231,074	231,074	6,846	0	0	1,336

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

**April 2011**

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	02:45	16:15	19:00	22:19	23:30						5,858
2		04:15	07:15	13:00	16:00	20:37	22:58				4,950
3		04:43	07:45	13:00	16:30						5,541
4		05:15	08:00	14:00	17:00						5,946
5		05:45	08:30	14:30	17:30						5,940
6		06:15	09:00	15:15	18:15						5,933
7		07:00	09:30	15:45	18:45						6,308
8		07:30	10:15	16:30	19:30	22:50					6,922
9	00:01	08:15	11:00	17:30	20:30	23:20					7,931
10	00:01	09:15	11:45	18:15							9,902
11	00:01	10:45	13:00	19:15	22:30						9,773
12		12:15	14:15	20:15							8,906
13	00:01	13:15	15:30	21:15							8,912
14	00:30	11:32	12:55	14:15	16:45	21:50					8,911
15	01:15	11:12									6,922
16	02:15	11:45	14:45	17:00							6,936
17	00:01	04:00	06:46	12:45	15:45	20:40					6,930
18	00:01	04:45	07:30	13:30							6,940
19	00:01	05:30	08:00	14:15	17:15	20:40					6,921
20	00:01	05:15	08:45	14:46	18:30						6,931
21	00:01	07:00	09:00								6,924
22	00:01	08:00	10:30	16:30	20:00						9,905
23		09:30	11:15	15:30	22:30						12,670
24		19:00	22:00								12,692
25		06:45									4,941
26	02:50	08:30	16:00	21:45							2,614
27	02:50	08:30	16:00	21:45							7,103
28	00:45	14:50	15:21	21:10							13,090
29	00:01	02:30	05:35	11:30	14:30	21:50					13,234
30	00:01	03:00	06:00	12:00	21:30	23:45					5,914
Total inflow for the month in AF:											232,400

**Table 11. Governor Edmund G. Brown California Aqueduct**

Delta Field Division, Monthly Deliveries

(In acre-feet)

**April 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	General Conveyance	Article 56C	Local Other	
	No.	Structure	Mile								
1A			1.83	Byron-Bethany I.D.	1,969					1,969	
1	1	Banks Pumping Plant	3.32		231,074		41				
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	6,846						
		Check No. 1	5.95								
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0						
	2	Check No. 2	12.01								
			12.47	Musco Olive	41						
		Check No. 3	18.29								
	3		22.16	Tracy Golf & Country Club	0						
		Check No. 4	23.99								
2A	4	Check No. 5	29.73								
	5	Check No. 6	34.24								
	6		35.22	Turlock Fruit Company Inflow	0						
		Check No. 7	39.91								
	7		42.46	Oak Flat Water District-A	31		31				
			42.9	Western Hills WD	80						
			43.81	Oak Flat Water District-B	46						
			44.64	Oak Flat Water District-C	64						
		Check No. 8	45.97		0						
	8		46.18	Oak Flat Water District-D	57		57				
				Oak Flat Totals:	198						
2B	9	Check No. 9	51.3				198	0	0	0	
		Check No. 10	56.86								
	10	Check No. 11	61.4								
			66.14	Veteran's Cemetery	14						
	11	Check No. 12	66.71		213,823						

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

April 2011

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending		No.			Table A	Local	Article 14B	Semitropic Recovery	Recreation	
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	6,846	4	100	12	12	12	
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	4						
		Check No. 1	3.91								
	2	Check No. 2	5.21								
	3		7.21	Zone 7 Water Agency Altamont	0						
2		Check No. 3	9.49	Zone 7 Water Agency Patterson							
				Storage Exchange Project Water	0						
					100						
4	4	Check No. 4	10.68			45	14	5	5	5	
	5	Check No. 5	12.29								
	6		13.55	Zone 7 Water Agency Wente #1	45						
			14.16	Zone 7 Water Agency Wente #2	14						
			14.31	Zone 7 Water Agency Ising	5						
		Check No. 6	14.65								
	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	47	47	6	27	27	27	
		Check No. 7	16.38								
	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Water Agency Wente #3	0	6	231	39	553	1,890	
			16.63	Zone 7 Water Agency Wente #4	6						
			16.69	Zone 7 Water Agency Norman Nursery	0						
			16.70	Zone 7 Water Agency Concannon Project Water	27						
				Pumped into Lake Del Valle	0						
		Del Valle Branch Pipeline	18.63	Pumped into South Bay Aqueduct	0						
				Gravity into South Bay Aqueduct	1,336						
				Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water	0						
		Deliveries through Del Valle Branch Pipeline		Storage Exchange Inflow Release	231						
			19.20	East Bay Regional Park Dist. Del Valle Recreation	12						
				Zone 7 Water Agency Wente #5	39						
	6		19.21	Zone 7 Water Agency So. Livermore Project Storage Release Project Water	553	19	553	1,890	1,890	1,890	
	7	La Costa Tunnel	22.50	ACWD - Vallecitos Project Water	0						
			25.97	City of San Francisco San Antonio	0						
	8	Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water Storage Release	956	172	552	784	784	784	
9		Santa Clara Pipeline	35.86	S.C.V.W.D. Meter	3,684						

**Table 13. Lake Del Valle**

Daily Operation

Capacity: 77,106 ac-ft

April 2011

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Mar 31	703.87	40,533									
1	703.87	40,533	0	240	0	0	228	1	11	240	0.00
2	703.76	40,454	-79	175	0	0	245	1	8	254	0.00
3	703.67	40,390	-64	181	0	0	239	1	5	245	0.00
4	703.56	40,312	-78	146	0	0	212	1	11	224	0.00
5	703.53	40,290	-21	114	0	0	127	1	7	135	0.00
6	703.56	40,312	21	122	0	0	92	1	7	100	0.00
7	703.64	40,369	57	126	0	0	60	1	8	69	0.03
8	703.71	40,419	50	96	0	0	39	1	6	46	0.08
9	703.78	40,468	50	74	0	0	19	1	5	25	0.00
10	703.86	40,526	57	77	0	0	12	1	6	19	0.00
11	703.93	40,576	50	57	0	0	0	1	6	7	0.00
12	703.98	40,611	36	44	0	0	0	1	7	8	0.00
13	704.06	40,669	57	63	0	0	0	0	6	6	0.10
14	704.11	40,704	36	42	0	0	0	0	6	6	0.02
15	704.17	40,747	43	51	0	0	0	0	8	8	0.00
16	704.24	40,797	50	55	0	0	0	0	5	5	0.00
17	704.26	40,812	14	22	0	0	0	0	7	7	0.00
18	704.30	40,841	29	36	0	0	0	0	8	8	0.00
19	704.36	40,884	43	48	0	0	0	0	5	5	0.00
20	704.41	40,920	36	43	0	0	0	0	7	7	0.00
21	704.48	40,970	50	56	0	0	0	0	6	6	0.10
22	704.48	40,970	0	10	0	0	0	0	10	10	0.02
23	704.48	40,970	0	3	0	0	0	0	3	3	0.00
24	704.48	40,970	0	5	0	0	0	0	5	5	0.00
25	704.48	40,970	0	5	0	0	0	0	5	5	0.03
26	704.48	40,970	0	6	0	0	0	0	6	6	0.00
27	704.72	41,143	173	184	0	0	0	0	11	11	0.00
28	704.74	41,157	14	21	0	0	0	0	6	6	0.00
29	704.74	41,157	0	39	0	0	29	0	10	39	0.00
30	704.73	41,150	-7	39	0	0	34	0	12	46	0.00
Total			617	2,180	0	0	1,336	12	215	1,563	0.38

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations  
April 2011

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/	
Mar 31	218.81	40,103										
1	219.43	41,682	1,579	0	2,143	0	3,346	0	0	4,571	11	-111
2	220.02	43,204	1,522	0	2,509	0	3,093	0	0	4,683	11	-141
3	220.61	44,740	1,536	0	2,619	0	2,837	0	0	4,712	11	41
4	220.48	44,400	-340	0	2,613	0	1,519	0	0	4,272	11	-20
5	220.55	44,583	183	0	2,593	0	2,189	0	0	4,569	11	-110
6	220.02	43,204	-1,379	0	2,558	0	1,979	0	0	5,141	11	-80
7	218.89	40,305	-2,899	0	2,580	0	2,017	0	0	5,956	12	-91
8	218.82	40,128	-177	0	2,029	0	3,547	0	0	5,846	12	193
9	218.65	39,699	-429	0	1,606	0	4,101	0	0	5,726	13	-184
10	220.27	43,853	4,154	0	1,575	0	5,250	0	0	4,742	13	24
11	221.26	46,442	2,589	0	1,552	0	4,411	0	0	4,699	13	54
12	221.81	47,887	1,445	0	1,446	0	4,030	0	0	4,693	13	-41
13	221.22	46,337	-1,550	0	1,329	0	3,544	0	0	5,632	13	-9
14	221.89	48,098	1,761	0	844	0	4,523	0	0	4,618	12	151
15	220.87	45,420	-2,678	0	1,077	0	3,348	0	0	5,579	12	-184
16	220.47	44,374	-1,046	0	1,297	0	3,239	0	0	5,045	12	-6
17	220.73	45,054	680	0	2,097	0	3,127	0	0	4,786	12	-83
18	221.16	46,180	1,126	0	2,459	0	2,987	0	0	4,842	12	-24
19	220.98	45,708	-472	0	2,263	0	2,972	0	0	5,318	12	-143
20	220.56	44,609	-1,099	0	2,109	0	2,997	0	0	5,653	12	5
21	219.30	41,349	-3,260	0	2,101	0	3,134	0	0	6,779	8	-92
22	219.14	40,940	-409	0	2,071	0	4,436	0	0	6,723	8	18
23	220.62	44,766	3,826	0	2,011	0	6,056	0	0	6,042	8	-88
24	222.33	49,261	4,495	0	1,779	0	5,769	0	0	5,148	8	-126
25	220.74	45,080	-4,181	0	1,408	0	938	0	0	4,635	8	189
26	218.35	38,945	-6,135	0	1,341	0	300	0	0	4,502	8	-224
27	217.79	37,553	-1,392	0	708	0	4,985	0	0	6,520	8	133
28	218.49	39,297	1,744	0	1,302	0	6,662	0	0	7,198	12	125
29	219.12	40,889	1,592	0	1,253	0	6,345	0	0	6,800	12	17
30	220.48	44,400	3,511	0	1,216	1,592	4,118	0	0	5,065	12	-79
Total			4,297	0	54,488	1,592	107,799	0	0	160,495	331	-886
Mean cfs			---	0	1,816	53	3,593	0	0	5,350	11	-30
Acre-feet			4,297	0	108,078	3,157	213,823	0	0	318,338	657	-1,766

1/ Pump-in located at Mile 79.67R.

2/ Includes 0 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., and 701 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

April 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet) 1/	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 2/	Parks and Rec. Del.		
Mar 31	543.56	2,034,956							
1	543.56	2,034,956	0	0	0	0	0	0	0
2	543.56	2,034,956	0	0	0	0	0	0	0
3	543.56	2,034,956	0	0	0	0	0	0	0
4	543.56	2,034,956	0	0	0	0	0	0	0
5	543.55	2,034,828	-128	0	0	0	0	0	-65
6	543.54	2,034,701	-127	0	0	1	0	0	-63
7	543.51	2,034,320	-381	0	0	1	0	0	-191
8	543.50	2,034,192	-128	0	0	1	0	0	-64
9	543.47	2,033,811	-381	0	0	1	0	0	-191
10	543.46	2,033,684	-127	0	0	1	0	0	-63
11	543.45	2,033,556	-128	0	0	1	0	0	-64
12	543.44	2,033,429	-127	0	0	13	0	0	-51
13	543.40	2,032,920	-509	0	0	12	0	0	-245
14	543.39	2,032,793	-127	0	0	9	0	0	-55
15	543.38	2,032,666	-127	0	0	8	0	0	-56
16	543.38	2,032,666	0	0	0	10	0	0	10
17	543.37	2,032,539	-127	0	0	1	0	0	-63
18	543.36	2,032,412	-127	0	0	1	0	0	-63
19	543.35	2,032,285	-127	0	0	5	0	0	-59
20	543.33	2,032,030	-255	0	0	6	0	0	-123
21	543.33	2,032,030	0	0	0	10	0	0	10
22	543.30	2,031,649	-381	0	0	10	0	0	-182
23	543.29	2,031,522	-127	0	0	8	0	0	-56
24	543.27	2,031,267	-255	0	0	9	0	0	-120
25	543.26	2,031,140	-127	0	0	10	0	0	-54
26	543.25	2,031,013	-127	0	0	10	0	0	-54
27	543.22	2,030,632	-381	0	0	21	0	0	-171
28	543.19	2,030,250	-382	0	0	91	0	0	-102
29	543.15	2,029,742	-508	0	0	92	0	0	-164
30	542.88	2,026,311	-3,431	0	1,592	53	0	0	-85
Total			-8,645	0	1,592	385	0	0	-2,384
Mean cfs			---	0	53	13	0	0	-79
Acre-feet			-8,645	0	3,157	756	0	0	-4,732

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 305 AF, Casa De Fruta 0 AF, and San Benito 451 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

April 2011

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant			San Felipe Project	
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	9,066	7,178	0	0	0	0	0
2	9,289	7,418	0	0	0	0	0
3	9,346	7,446	0	0	0	0	0
4	8,473	6,535	0	0	0	0	0
5	9,062	7,129	0	0	0	0	0
6	10,198	8,270	0	0	0	0	2
7	11,813	9,880	0	0	0	0	1
8	11,596	9,687	0	0	0	0	2
9	11,358	9,459	0	0	0	0	2
10	9,405	5,736	0	0	0	0	2
11	9,320	5,682	0	0	0	0	2
12	9,308	5,682	0	0	0	0	25
13	11,171	7,529	0	0	0	0	24
14	9,159	5,509	0	0	0	0	18
15	11,065	7,454	0	0	0	0	15
16	10,006	6,398	0	0	0	0	19
17	9,493	5,787	0	0	0	0	1
18	9,604	5,990	0	0	0	0	2
19	10,548	6,890	0	0	0	0	9
20	11,213	7,585	0	0	0	0	11
21	13,447	9,780	0	0	0	0	19
22	13,335	10,611	0	0	0	0	19
23	11,984	9,273	0	0	0	0	16
24	10,212	7,571	0	0	0	0	18
25	9,194	6,469	0	0	0	0	20
26	8,930	6,241	0	0	0	0	19
27	12,932	10,238	0	0	0	0	41
28	14,277	11,564	0	0	0	0	181
29	13,487	10,763	0	0	0	0	183
30	10,047	7,334	3,157	3,157	0	0	105
Total	318,338	233,088	3,157	3,157	0	0	756

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations

April 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Mar 31	328.77	21,034					
1	328.16	20,745	-289	54	0	200	1
2	327.64	20,501	-244	27	0	150	0
3	327.75	20,552	51	26	0	0	-1
4	327.87	20,608	56	28	0	0	1
5	327.96	20,651	43	22	0	0	-1
6	328.03	20,684	33	17	0	0	-1
7	328.08	20,707	23	12	0	0	-1
8	328.18	20,754	47	24	0	0	-1
9	328.24	20,783	29	15	0	0	-1
10	328.30	20,811	28	14	0	0	0
11	328.36	20,839	28	14	0	0	0
12	328.40	20,858	19	10	0	0	-1
13	328.43	20,873	15	8	0	0	-1
14	328.47	20,891	18	9	0	0	0
15	328.52	20,915	24	12	0	0	0
16	328.56	20,934	19	10	0	0	-1
17	328.59	20,948	14	7	0	0	0
18	328.61	20,958	10	5	0	0	0
19	328.64	20,972	14	7	0	0	0
20	328.66	20,982	10	5	0	0	0
21	328.66	20,982	0	0	0	0	0
22	328.67	20,986	4	2	0	0	0
23	328.70	21,000	14	7	0	0	0
24	328.70	21,000	0	0	0	0	0
25	328.70	21,000	0	0	0	0	0
26	328.71	21,005	5	3	0	0	-1
27	328.72	21,010	5	3	0	0	-1
28	328.71	21,005	-5	0	0	0	-5
29	328.69	20,996	-9	0	0	0	-9
30	328.69	20,996	0	0	0	0	0
Total			-38	341	0	350	-20
Mean cfs			---	11	0	12	---
Acre-feet			-38	676	0	694	-20

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

April 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Mar 31	602.70	832		2	0	2	0
1	Not Observed			2	0	2	0
2	Not Observed			2	0	2	0
3	Not Observed			2	0	2	0
4	Not Observed			2	0	2	0
5	Not Observed			2	0	2	0
6	Not Observed			2	0	2	0
7	602.60	826	-6	0	0	2	-2
8	602.60	826	0	0	0	0	0
9	Not Observed						
10	Not Observed						
11	Not Observed						
12	Not Observed						
13	Not Observed						
14	Not Observed						
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	Not Observed						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	Not Observed						
24	Not Observed						
25	Not Observed						
26	Not Observed						
27	Not Observed						
28	Not Observed						
29	Not Observed						
30	Not Observed						
Total			-6	12	0	14	-2
Mean cfs			---	2	0	2	---
Acre-feet			-6	24	0	28	-2

**Table 19. Governor Edmund G. Brown California Aqueduct**  
San Luis Field Division, Monthly Deliveries

(In acre-feet)

**April 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		213,823						
3A		San Luis Reservoir		Department of Parks and Recreation	0	305	451	0	0		
				San Felipe Division Santa Clara Water District	305						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	451						
				Reach 3A Subtotal:	756						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	1	645	645	1	0		
				Cattle Program	1			1	0		
				Department of Fish & Game	10			6	4		
		Thru	70.91	San Luis Water District	645		645	0	8		
			85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	657						
		Dos Amigos Pumping Plant	86.73		318,338						
4	14		89.03	San Luis Water District	5,611	5,611	961	47	90		
			Thru 94.06								
			89.66	Pacheco Water District	961						
			Thru 89.67								
			89.68	Panoche Water District	47						
		Check No. 14	89.70	City of Dos Palos	90						
	15		95.06								
			98.15	San Luis Water District	561	561	3,384	7,960	18,614		
			Thru 104.20								
			96.15	Panoche Water District	3,384						
			102.64	(Floodwater Inflow)	0						
			102.64	Broadview Water District	0						
			105.22	Westlands Water District	7,960						
			Thru 108.64								
Check No.15		108.50									
		Reach 4 Subtotal:	18,614								
		San Felipe Division Total:	756								
		Pacheco Water District Total:	961								
		Broadview Water District Total:	0								
		City of Dos Palos Total:	90								
		SLWD Reach 4 Subtotal:	6,172								
		Panoche Water District Total:	3,431								
		SLWD Total:	6,817								
		Westlands WD Reach 4 Subtotal:	7,960								

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries									
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation						
	No.	Structure													
5	16		110.52	(Reverse flow, Kings River)	0	10,280		50	40						
				Westlands Water District	10,280										
				Dept. of Fish and Game @ Lat. 4L	90										
				Dept. of Fish and Game @ Lat. 6L	0										
				Dept. of Fish and Game @ Lat. 7L	34										
	17	Check No. 16	122.07			9,443									
			124.18	Westlands Water District	9,443										
			Thru 132.74												
		Check No. 17	132.95			13,608		315							
	18		133.81	Westlands Water District	13,608										
			Thru 142.61												
			Pleasant Valley Pumping Plant	Westlands Water District	10,490	10,490		315							
			143.16	City of Coalinga	315										
			Check No. 18	143.23											
					Reach 5 Subtotal:	44,226	44,136	0	50	40					
6	19		145.26	GWF Energy	0	80	1/ 140								
				City of Huron	0										
				DWR Water Truck @ Lat. 22R	80										
				Kings County to Lemoore NAS Through WWD	140										
				Kings County through WWD 30L	0										
				Westlands Water District	15,030										
			Check No. 19	155.64		15,110	140	0	0						
7	20		156.34	Reach 6 Subtotal:	15,250	15,110	140	0	0						
				City of Huron	88	88									
				SWP Construction @ Lat. 24R	0										
				Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0										
			156.40	Westlands Water District	8,084										
			Thru			8,084									
			163.69												
			Check No. 20	164.69											
	21		164.79	City of Avenal	177		177								
			167.04	Westlands Water District	4,924										
			Thru 171.67												
			Check No. 21	172.40	226,661										
							13,273	0	0						
Total San Luis Field Division Deliveries:						92,776	92,534	140	58	44					

1/ From County of Kings to Westlands Water District.

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations

April 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Mar 31	27,370								
1	27,323	-47	26	4,571	108	33	1,018	3,561	100
2	27,297	-26	25	4,683	108	33	1,018	3,829	266
3	28,650	1,353	25	4,712	108	33	1,019	3,208	314
4	28,164	-486	10	4,272	108	33	1,019	3,417	50
5	27,980	-184	10	4,569	108	33	1,019	3,268	-243
6	27,395	-585	10	5,141	108	33	1,019	3,925	-361
7	26,937	-458	5	5,956	109	39	1,152	4,699	-193
8	28,447	1,510	5	5,846	109	39	1,152	3,733	-56
9	27,556	-891	5	5,726	109	39	1,152	5,087	207
10	28,399	843	5	4,742	109	39	1,152	3,360	338
11	28,798	399	5	4,699	109	39	1,152	3,215	12
12	27,891	-907	76	4,693	109	39	1,152	3,977	51
13	28,662	771	85	5,632	109	39	1,152	3,832	-197
14	28,576	-86	84	4,618	123	78	1,395	3,211	62
15	28,575	-1	62	5,579	123	78	1,395	4,055	10
16	28,236	-339	61	5,045	123	78	1,395	3,783	102
17	29,092	856	52	4,786	123	78	1,395	3,113	303
18	28,787	-305	64	4,842	123	78	1,395	3,601	137
19	28,188	-599	67	5,318	123	78	1,395	3,982	-109
20	27,003	-1,185	63	5,653	123	78	1,395	4,247	-471
21	27,599	596	78	6,779	137	68	1,602	3,710	-1,039
22	28,227	628	77	6,723	137	68	1,602	3,866	-810
23	28,666	439	61	6,042	137	68	1,602	4,197	122
24	29,548	882	54	5,148	137	68	1,602	3,737	787
25	28,321	-1,227	77	4,635	137	68	1,602	3,814	291
26	26,518	-1,803	86	4,502	137	68	1,602	3,386	-304
27	26,665	147	70	6,520	137	68	1,602	4,316	-393
28	27,596	931	66	7,198	137	79	1,845	4,527	-206
29	28,995	1,399	62	6,800	137	79	1,845	4,281	186
30	28,793	-202	69	5,065	137	79	1,845	3,333	158
Total		1,423	1,445	160,495	3,642	1,730	40,690	114,273	-886
Mean cfs		---	48	5,350	121	58	1,356	3,809	-30
Acre-feet		1,423	2,866	318,338	7,223	3,431	80,709	226,661	-1,757

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 961 AF to Pacheco W.D., 90 AF to the City of Dos Palos and 6,172 AF to San Luis Water District.

3/ Includes 88 AF to the City of Huron, 177 AF to the City of Avenal, 315 AF to the City of Coalinga, 0 AF to City of Huron P&R @ 22R, 140 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 4L, 90 AF to DFG @ 4L, 0 AF to Pilobos Wildlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF to DWR Water Truck @ 22R, 80 AF DFG @ L22R, 0 AF Non-Project Water, 69,329 AF to Westlands Water District and 10,490 AF to Pleasant Valley Pumping Plant.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

April 2011

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	92	94	58	52	59	3,471	3,630	3,468	3,482
2	120	116	53	47	45	4,146	4,201	4,098	3,966
3	187	176	74	66	76	4,178	4,247	4,108	4,044
4	173	171	49	44	51	3,128	3,080	2,943	2,868
5	348	312	56	51	58	3,078	2,852	2,716	2,688
6	415	421	59	54	61	3,889	3,692	3,545	3,458
7	449	454	58	52	60	3,296	2,970	2,737	2,603
8	382	401	51	47	54	3,657	3,532	3,272	3,163
9	323	328	91	84	94	5,183	5,029	4,567	4,795
10	118	163	72	64	74	4,240	4,132	4,319	4,300
11	231	192	40	36	40	3,839	3,794	3,596	3,482
12	330	283	54	47	55	3,637	3,575	3,416	3,280
13	345	338	55	51	56	3,978	3,810	3,671	3,564
14	374	350	84	73	85	2,858	2,619	2,458	2,343
15	311	312	53	46	54	4,823	4,534	4,403	4,297
16	309	325	69	62	72	4,550	4,223	4,052	3,927
17	262	248	73	65	75	3,622	3,778	3,671	3,630
18	251	247	63	58	67	5,193	5,206	5,010	5,022
19	299	258	54	49	58	5,070	5,049	4,825	4,748
20	384	370	100	91	102	5,365	5,351	5,052	4,806
21	341	331	72	65	74	5,389	5,174	4,865	4,737
22	375	394	75	68	77	5,259	5,250	4,979	4,947
23	378	403	64	57	67	5,384	5,418	5,189	5,182
24	398	378	64	57	66	4,812	5,368	5,215	5,114
25	448	430	71	64	74	4,981	5,125	4,883	4,808
26	447	428	73	66	76	4,865	5,274	4,970	4,867
27	406	402	61	55	62	4,764	4,719	4,459	4,385
28	373	315	77	68	80	5,708	5,474	5,275	5,169
29	341	315	87	79	89	5,622	5,682	5,083	5,241
30	381	393	91	82	94	5,510	5,545	5,289	5,168
Total	9,591	9,348	2,001	1,800	2,055	133,495	132,333	126,134	124,084

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

April 2011

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Recovery	Article 21	Carryover Article 56C		
	No.	Structure										
7	21	Check No. 21	172.40		226,661							
8C	22		172.66	Empire West Side ID TL - A	0	30			196 613 327 27 1/ 1,126 827 2 566			
				County of Kings TL - A	0							
				Tulare Lake Basin WSD TL-A	196							
			175.18	Dudley Ridge WD - 1	613							
			177.54	Dudley Ridge WD - 1B	327							
			180.64	Tulare Lake Basin WSD - C	0							
			180.65	Dudley Ridge WD - 1A	27							
			182.99	Dudley Ridge WD - 2	1,156							
			183.00	Tulare Lake Basin WSD TL - B	827							
				County of Kings TL-B	0							
31A			184.00	Dudley Ridge WD - Paramount	2							
8D			184.63	Coastal Branch	9,591							
			184.78	Dudley Ridge WD - 3	566							
				Dudley Ridge Reach 8D Total:	2,691	30	0	0	2,661	0		
				Tulare Lake Basin WSD Total:	1,023	0	0	0	1,023	0		
			Check No. 22	184.82								
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	3,389				3,333 390 148 134 35 0 4,040	2/ 56 390 148 134 2/ 640 696		
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	390							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	148							
			196.40	Kern County Water Agency Berrenda Mesa - 2	134							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	675							
				KCWA Reach 9 Subtotal:	4,736		0	0				
			Check No. 23	197.05								
			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	828	2	734	100	828 962 1,600 18,272 1,633	3/ 8,573		
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	962							
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	2							
			Check No. 24	207.94								
10A	25		209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	1,600	2	734	100	1,600	3/ 8,573		
			209.78	Kern National Wildlife Refuge USBR BV-1B	734							
				Kern County Water Agency Buena Vista WSD 1B	0							
				KCWA Semitropic WSD	18,372							
			209.80	KCWA Semitropic WSD Penstocks	10,206							
				USBR Total:	734		0	734	0			
				KCWA Reach 10A Subtotal:	31,970	102	0	0	23,295	8,573		

1/ Includes 689 AF Tulare Lake Basin Water Service District Article 21 water.

2/ Recovery of water that was pumped-in and stored in O'Neill.

3/ Water sent to Semitropic WD for Banking: 3,530 AF from MWD, 3,530 AF from Santa Clara Valley WD, 1,513 AF from Alameda County WD.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Recovery	Article 21	Carryover Article 56C		
	No.	Structure	Mile									
11B	25	210.75 214.11 216.62 217.13	Kern County Water Agency Belridge - 2	0	89	89	811	7,787				
			Kern County Water Agency Belridge - 3	811								
			Kern County Water Agency Belridge - 4	0								
			Kern County Water Agency Belridge - 5A-C	7,787								
			Kern County Water Agency Belridge - 5D	89								
		Check No. 25	217.79									
			KCWA Reach 11B Subtotal:	8,687								
12D	26	219.58	Kern County Water Agency Belridge - 6	0	2	2						
			Kern County Water Agency West Kern - 3	2								
		Check No. 26	224.92									
			Kern County Water Agency Buena Vista - 6	0								
12E	27	230.37 231.73 235.75 238.04	Kern County Water Agency Buena Vista - 2	643	643 8,084 2/ 1,503	643 8,084 2/ 1,503						
			Kern County WA CVC	9,587								
	28		DRWD CVC	0								
			Tulare Co.	0								
			Lower Tule River	0								
			Fresno Co.	0								
			Pixley ID	0								
			Hacienda									
			DWR Wells	0								
			Check No. 28	238.11								
			1/ Arvin Edison Total:	0								
			Reach 12E Subtotal:	10,230								
13B	29	238.19 241.02 242.85	Kern Water Bank Inflow	0	858	858	24,103	3/ 2,770				
			Kern Water Bank Outflow	26,873								
			Kern River Intertie (inflow)	0								
			KCWA Buena Vista WSD - 7	0								
			KCWA Buena Vista WSD - 5	0								
			Kern County Water Agency Buena Vista - 3	858								
		Check No. 29	244.54									
	30	249.85	Kern County Water Agency Buena Vista - 4	0								
			Buena Vista Pumping Plant	133,495								
			KCWA Reach 13B Subtotal:	27,731								
14A	31	254.47 256.11	Kern County Water Agency West Kern - 2	0	394	394						
			Kern County Water Agency Wheeler Ridge-Maricopa - 2	394								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ MWD Table A sent to Kern-Delta WD.

3/ DRWD sent Article 21 water to KWB for storage.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**April 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile		Table A	USBR	Recovery	Article 21
	No.	Structure								
14A	31	Check No. 31	256.14							
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	604				604	
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	1,300				1,300	
		Check No. 32	261.72							
				KCWA Reach 14A Subtotal:	2,298		0	0	0	2,298
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	2,449				2,449	
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	431				431	
	Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,803		549			1,254
		Check No. 34	271.27							
				Reach 14B Total:	4,683		549	0	0	4,134
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	1,190		1,190			
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	779		779			
			277.30	Kern County Water Agency Arvin-Edison WSD	0					
				Reach 14C Total:	1,969		1,969	0	0	0
	Teerink Pumping Plant	278.13			132,333					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	502		502			
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	2,580		1,601		979	
				Reach 15A Total:	3,082		2,103	0	0	979
		Chrismen Pumping Plant	280.36		126,134					
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0					
		Check No. 37	283.95							
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	27		27			
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	117		117			
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0					
		Check No. 38	287.09							
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	157		157			
		Check No. 39	290.21							
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	856		856			
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	170		170			
				Kern County Water Agency Tehachapi Cummings CWD	729				729	
				KCWA Reach 16A Subtotal:	2,056		1,327	0	0	729
17E	Edmonston Pumping Plant	293.45			124,084					0

**Table 23. Governor Edmund G. Brown California Aqueduct**  
 San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

April 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Recovery	Article 21	Carryover Article 56C		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		9,591							
		Las Perillas Pumping Plant	1.16		9,591							
	C-2		3.79	Green Valley Water District	238					238		
		Badger Hill Pumping Plant	4.27		9,348							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	140					140		
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	0							
			14.83	Kern County Water Agency Berrenda Mesa - 1	6,962					6,962		
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		2,001							
				KCWA Reach 31A Subtotal:	6,962	0	0	0	6,962	0		
				KCWA Total:	104,406	6,999	0	0	83,865	13,542		
33A	C-7	Bluestone Pumping Plant	19.05		1,800							
	C-8	Polonio Pass Pumping Plant	26.54		2,055							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,647							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	322							
		Energy Dissipater	78.12									
	Lopez T.O.		85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	1,969	1,969	0	0	0	0		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
	So. Cal. Water T.O.	109.20		SBCFC & WCD	0							
38				SBCFC & WCD Total:	0	0	0	0	0	0		
	Tank Site 5	115.42										

**Table 24. Southern Field Division Plant Data**

April 2011

(in acre-feet)

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Bypass Through Plant	Tehachapi Afterbay Bypass	Generation	Leakage	Bypass Flume						
1	1,237	1,409	0	0	3,394	754	2,213	0	0	1,899	1,855	0	0	2,056	60	61	32
2	1,637	1,402	0	0	1,224	0	2,185	0	0	2,132	2,101	0	0	1,821	60	61	32
3	1,470	700	0	0	123	0	2,604	0	0	2,258	2,524	0	0	2,082	60	61	32
4	530	383	0	0	1,924	0	2,473	0	0	2,160	2,052	0	0	2,222	60	61	32
5	211	384	0	0	1,151	891	2,468	0	0	2,318	2,372	0	0	2,540	60	61	32
6	211	391	0	0	1,162	959	2,907	0	198	3,011	2,901	0	72	2,990	61	61	32
7	217	391	0	0	1,992	0	2,003	0	248	2,003	2,102	0	0	2,774	60	61	32
8	317	326	0	0	1,345	975	2,584	0	256	2,656	2,639	0	0	2,805	61	62	32
9	317	327	0	0	231	891	2,926	0	1,289	3,330	3,454	0	0	2,778	60	62	32
10	415	392	0	0	638	1,733	2,783	0	826	3,620	3,650	0	0	2,847	60	62	32
11	415	455	0	0	2,004	895	2,773	0	248	2,816	2,800	0	0	2,763	60	62	32
12	264	455	0	0	1,990	905	2,756	0	186	2,652	2,975	0	0	2,407	61	61	32
13	624	584	0	0	928	996	2,626	0	198	2,790	2,753	0	0	2,503	60	61	32
14	198	452	0	0	1,523	0	1,922	0	165	1,982	2,033	0	0	2,504	60	61	32
15	579	516	0	0	1,505	753	2,964	0	447	2,931	2,927	0	0	2,839	61	62	32
16	627	515	0	0	248	0	2,815	0	29	2,933	2,939	0	0	2,636	61	62	32
17	632	452	0	0	101	1,119	2,744	0	182	2,657	2,846	0	0	2,401	61	62	32
18	1,464	1,535	0	0	2,291	0	2,711	0	198	2,469	2,474	0	0	2,514	60	61	32
19	1,413	1,538	0	0	1,742	0	2,991	0	314	2,924	2,880	0	0	2,810	60	61	32
20	1,693	1,542	0	0	557	0	3,039	0	182	2,821	3,000	0	0	3,413	64	62	32
21	1,899	1,538	0	0	658	867	3,166	0	87	2,758	2,787	0	0	3,340	67	62	32
22	1,573	1,529	0	0	2,777	0	2,915	0	174	2,655	2,672	0	0	3,023	66	61	32
23	1,311	1,539	0	0	343	0	2,732	0	413	3,112	3,411	0	0	3,114	67	61	32
24	1,315	1,536	0	0	123	0	2,991	0	789	3,202	2,937	0	0	3,174	67	61	32
25	1,572	1,541	0	0	605	0	2,928	0	397	3,030	2,953	0	0	3,236	75	62	32
26	1,473	1,546	0	0	944	0	2,952	0	182	3,057	3,131	0	0	3,126	79	61	32
27	1,412	1,543	0	0	1,937	0	2,840	0	240	2,514	2,619	0	0	3,111	79	61	32
28	1,579	1,547	0	0	2,168	0	2,694	0	421	3,154	3,357	0	0	3,274	80	62	32
29	1,524	1,544	0	0	1,558	0	2,818	0	818	3,020	2,891	0	0	3,400	74	62	32
30	1,267	1,551	0	0	123	0	2,815	0	595	3,276	3,290	0	0	3,089	66	61	32
Total	29,396	29,563	0	0	37,309	11,738	81,338	0	9,082	82,140	83,325	0	72	83,592	1,930	1,842	960

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**April 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)		
				Project			Natural	Project			To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.			
Mar 31	2576.58	168,074												
1	2576.22	167,613	-461	754	1,409	0	1,359	3,394	0	1,472	0	883		
2	2576.49	167,959	346	0	1,402	0	1,129	1,224	0	1,275	0	314		
3	2576.89	168,472	513	0	700	0	889	123	0	1,009	0	56		
4	2575.50	166,694	-1,778	0	383	0	700	1,924	0	738	0	-199		
5	2575.51	166,706	12	891	384	0	589	1,151	1	635	0	-65		
6	2575.56	166,770	64	959	391	0	528	1,162	0	549	0	-103		
7	2573.93	164,700	-2,070	0	391	0	480	1,992	0	536	0	-413		
8	2574.30	165,168	468	975	326	0	420	1,345	0	536	0	628		
9	2575.07	166,146	978	891	327	0	375	231	0	476	0	92		
10	2576.20	167,588	1,442	1,733	392	0	335	638	0	377	0	-3		
11	2575.14	166,235	-1,353	895	455	0	307	2,004	0	337	0	-669		
12	2574.74	165,726	-509	905	455	0	290	1,990	0	317	0	148		
13	2575.25	166,375	649	996	584	0	270	928	0	278	0	5		
14	2574.21	165,054	-1,321	0	452	0	254	1,523	0	268	0	-236		
15	2573.92	164,687	-367	753	516	0	234	1,505	0	268	0	-97		
16	2574.00	164,788	101	0	515	0	228	248	0	266	0	-128		
17	2575.14	166,235	1,447	1,119	452	0	228	101	0	260	0	9		
18	2574.23	165,080	-1,155	0	1,535	0	222	2,291	0	252	0	-369		
19	2573.95	164,725	-355	0	1,538	0	210	1,742	0	246	0	-115		
20	2574.62	165,574	849	0	1,542	0	190	557	0	238	0	-88		
21	2576.08	167,434	1,860	867	1,538	0	173	658	0	228	0	168		
22	2574.79	165,790	-1,644	0	1,529	0	163	2,777	0	218	0	-341		
23	2575.67	166,910	1,120	0	1,539	0	155	343	0	208	0	-23		
24	2576.87	168,446	1,536	0	1,536	0	143	123	0	198	0	178		
25	2577.71	169,527	1,081	0	1,541	0	127	605	0	188	0	206		
26	2577.84	169,695	168	0	1,546	0	115	944	0	182	0	-367		
27	2577.22	168,896	-799	0	1,543	0	105	1,937	0	163	0	-347		
28	2576.77	168,318	-578	0	1,547	0	94	2,168	0	163	0	112		
29	2576.62	168,126	-192	0	1,544	0	84	1,558	0	143	0	-119		
30	2577.62	169,411	1,285	0	1,551	0	79	123	0	138	0	-84		
Total				1,337	11,738	29,563	0	10,475	37,309	1	12,162	0	-967	

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

**April 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Mar 31	1511.54	19,782								
1	1511.86	19,907	125	3,394	100	754	100	2,480	-35	
2	1510.16	19,246	-661	1,224	95	0	95	1,839	-46	
3	1509.93	19,157	-89	123	97	0	97	174	-38	
4	1515.17	21,229	2,072	1,924	99	0	99	0	148	
5	1512.45	20,139	-1,090	1,151	90	891	90	1,209	-141	
6	1510.59	19,412	-727	1,162	67	959	67	929	-1	
7	1513.41	20,520	1,108	1,992	58	0	58	860	-24	
8	1514.62	21,006	486	1,345	52	975	52	0	116	
9	1513.52	20,564	-442	231	43	891	43	0	218	
10	1510.98	19,563	-1,001	638	41	1,733	41	0	94	
11	1513.91	20,720	1,157	2,004	39	895	39	0	48	
12	1516.83	21,910	1,190	1,990	38	905	38	0	105	
13	1513.17	20,425	-1,485	928	36	996	36	1,188	-229	
14	1511.64	19,821	-604	1,523	34	0	34	2,115	-12	
15	1513.58	20,588	767	1,505	32	753	32	0	15	
16	1514.46	20,942	354	248	31	0	31	0	106	
17	1512.40	20,119	-823	101	30	1,119	30	0	195	
18	1518.26	22,505	2,386	2,291	28	0	28	0	95	
19	1517.47	22,175	-330	1,742	27	0	27	1,944	-128	
20	1511.98	19,954	-2,221	557	26	0	26	2,743	-35	
21	1508.72	18,695	-1,259	658	25	867	25	1,054	4	
22	1512.51	20,163	1,468	2,777	24	0	24	1,293	-16	
23	1509.36	18,939	-1,224	343	24	0	24	1,546	-21	
24	1508.60	18,650	-289	123	23	0	23	394	-18	
25	1510.28	19,292	642	605	21	0	21	0	37	
26	1512.75	20,258	966	944	20	0	20	0	22	
27	1514.10	20,797	539	1,937	19	0	19	1,348	-50	
28	1513.58	20,588	-209	2,168	19	0	19	2,368	-9	
29	1512.32	20,088	-500	1,558	18	0	18	2,050	-8	
30	1510.09	19,219	-869	123	18	0	18	984	-8	
Total				-563	37,309	1,274	11,738	1,274	26,518	
1/ Values supplied by LADWP, not verified by DWR.										

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**April 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Mar 31	1508.77	309,949								
1	1509.61	311,783	1,834	100	2,480	110	644	395	183	
2	1510.13	312,921	1,138	95	1,839	95	652	399	160	
3	1509.97	312,571	-350	97	174	88	592	395	278	
4	1509.42	311,368	-1,203	99	0	78	544	409	-427	
5	1509.66	311,892	524	90	1,209	75	700	407	257	
6	1509.97	312,571	679	67	929	75	643	403	654	
7	1509.98	312,593	22	58	860	73	598	518	147	
8	1509.50	311,542	-1,051	52	0	73	648	504	-24	
9	1509.10	310,669	-873	43	0	71	565	504	82	
10	1508.70	309,797	-872	41	0	66	618	506	145	
11	1508.25	308,818	-979	39	0	63	718	526	163	
12	1507.78	307,797	-1,021	38	0	61	531	526	-63	
13	1508.14	308,579	782	36	1,188	61	522	526	545	
14	1508.74	309,884	1,305	34	2,115	56	494	528	122	
15	1508.34	309,013	-871	32	0	56	527	530	98	
16	1507.90	308,057	-956	31	0	56	680	530	167	
17	1507.42	307,016	-1,041	30	0	53	610	530	16	
18	1506.98	306,064	-952	28	0	53	536	530	33	
19	1507.61	307,428	1,364	27	1,944	53	593	524	457	
20	1508.49	309,340	1,912	24	2,743	53	584	528	204	
21	1508.57	309,514	174	24	1,054	53	605	530	178	
22	1508.73	309,862	348	23	1,293	53	604	532	115	
23	1509.01	310,473	611	23	1,546	51	602	532	125	
24	1508.85	310,124	-349	23	394	48	600	400	186	
25	1508.58	309,536	-588	21	0	46	609	245	199	
26	1508.46	309,274	-262	20	0	41	74	153	-96	
27	1509.05	310,560	1,286	19	1,348	38	476	61	418	
28	1509.78	312,155	1,595	19	2,368	35	710	61	-56	
29	1510.16	312,987	832	18	2,050	35	613	61	-597	
30	1510.53	313,798	811	18	984	34	563	61	399	
Total				3,849	1,269	26,518	1,803	17,455	12,354	4,068

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

April 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	Rec.	Article 21	Article 14B	Local	Other		
	No.	Structure	Mile										
29A	42	Oso Pumping Plant	1.49		29,396								
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	1	1	1	1	1	3/ 11,003		
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub								
29G		Warne Power Plant	14.07	(No flow through Gorman Creek Imp. Channel)	29,563								
29H	W3	Pyramid Lake		USFS		1	1	1	1	1	3/ 11,003		
				Pyramid Recreation (T300)									
29J	W4	Pyramid Dam	17.10	United WA (T300)	11,003	0	0	0	0	0	0		
				Castaic Power Plant	37,309								
30 1/	W5	Castaic Lake		Elderberry Forebay		13	13	13	13	13	13		
				Forebay Dam	28.12								
30 1/	W5	Castaic Dam	31.47	California State Park		13	13	13	13	13	13		
				Castaic Lake Recreation (T301)									
30 1/	W5	Castaic Lake Outlet	31.6	MWDSC 78" & 132" (T302)	14,855	778	778	778	778	778	778		
				Castaic Lake WA 18", 24" & 54" (T303)	1,038								
30 1/	W5	Castaic Lake Outlet	31.6	Castaic Lake WA Rio Vista T.P. (T304)	1,345	1,345	1,345	1,345	1,345	1,345	1,345		
				MWD-Ventura Co. WPD (T302)	204								
30 1/	W5	Castaic Lake Outlet	31.6	Releases to Lagoon	12,354	204	204	204	204	204	204		
				Reach 30 Subtotal:	17,455								
30 1/	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0	2,327	2,327	2,327	2,327	2,327	2,327		
				Castaic Lagoon Outlet	31.9								

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

3/ Stored natural inflow in Castaic Lake per 1978 Flood Water Conservation Agreement.

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**April 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River		
Mar 31	3351.12	71,235											
1	3350.95	71,074	-161	1,855	0	242	0	0	2,056	0	202	0	0
2	3351.09	71,207	133	2,101	0	225	0	0	1,821	0	202	-170	0
3	3351.63	71,720	513	2,524	0	207	0	1	2,082	0	202	68	0
4	3351.34	71,444	-276	2,052	0	193	0	0	2,222	0	202	-97	0
5	3351.26	71,368	-76	2,372	0	181	3	0	2,540	0	165	79	0
6	3351.29	71,397	29	2,901	72	171	3	0	2,990	0	99	-23	0
7	3350.61	70,752	-645	2,102	0	171	3	1	2,774	0	99	-41	0
8	3350.50	70,648	-104	2,639	0	171	4	0	2,805	0	99	-6	0
9	3351.37	71,473	825	3,454	0	163	2	0	2,778	0	99	87	0
10	3352.16	72,226	753	3,650	0	154	3	0	2,847	0	99	-102	0
11	3352.24	72,302	76	2,800	0	150	3	0	2,763	0	99	-9	0
12	3353.00	73,032	730	2,975	0	141	2	1	2,407	0	99	123	0
13	3353.17	73,195	163	2,753	0	136	2	0	2,503	0	99	-122	0
14	3352.69	72,734	-461	2,033	0	131	3	0	2,504	0	99	-19	0
15	3352.78	72,820	86	2,927	0	130	0	0	2,839	0	99	-33	0
16	3353.14	73,166	346	2,939	0	128	1	0	2,636	0	99	16	0
17	3353.70	73,707	541	2,846	0	121	0	1	2,401	0	93	69	0
18	3353.59	73,600	-107	2,474	0	122	0	0	2,514	0	87	-102	0
19	3353.76	73,765	165	2,880	0	116	0	0	2,810	0	87	66	0
20	3353.31	73,330	-435	3,000	0	109	0	0	3,413	0	87	-44	0
21	3352.86	72,897	-433	2,787	0	109	0	0	3,340	0	87	98	0
22	3352.44	72,494	-403	2,672	0	107	0	1	3,023	0	87	-71	0
23	3352.75	72,791	297	3,411	0	103	0	0	3,114	0	87	-16	0
24	3352.38	72,436	-355	2,937	0	103	0	0	3,174	0	87	-134	0
25	3352.07	72,140	-296	2,953	0	96	0	0	3,236	0	86	-23	0
26	3352.07	72,140	0	3,131	0	90	3	0	3,126	0	86	-6	0
27	3351.54	71,634	-506	2,619	0	90	3	1	3,111	0	86	-14	0
28	3351.71	71,796	162	3,357	0	89	3	0	3,274	0	86	79	0
29	3351.15	71,264	-532	2,891	0	84	3	0	3,400	0	86	-18	0
30	3351.29	71,397	133	3,290	0	79	3	0	3,089	0	86	-58	0
Total				162	83,325	72	4,112	44	6	83,592	0	3,283	-422
1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.													

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**April 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow 1/	Computed Losses (-) Gains (+)
Mar 31	1562.25	73,073				
1	1562.25	73,073	0		37	
2	1562.17	72,924	-149		64	
3	1562.14	72,868	-56		65	
4	1562.23	73,036	168		82	
5	1562.28	73,129	93		65	
6	1562.21	72,999	-130		65	
7	1562.23	73,036	37		65	
8	1562.10	72,788	-248		66	
9	1562.15	72,887	99		65	
10	1562.00	72,607	-280		65	
11	1562.25	73,073	466		72	
12	1562.09	72,775	-298		104	
13	1562.25	73,073	298		104	
14	1562.09	72,775	-298		104	
15	1562.23	73,036	261		99	
16	1562.34	73,242	206		109	
17	1562.28	73,129	-113		105	
18	1562.20	72,980	-149		120	
19	1562.39	73,335	355		77	
20	1562.34	73,242	-93		75	
21	1562.45	73,447	205		75	
22	1562.42	73,391	-56		67	
23	1562.50	73,541	150		64	
24	1562.39	73,335	-206		65	
25	1562.34	73,242	-93		89	
26	1562.45	73,447	205		65	
27	1562.58	73,691	244		65	
28	1562.61	73,747	56		65	
29	1562.50	73,541	-206		65	
30	1562.61	73,747	206		65	
Total			674	3,977	2,293	-1,010

1/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

April 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	Rec.	Article 21	Article 14B	Local	Other		
	No.	Structure	Mile										
17E	40	Edmonston Pumping Plant	293.45		124,084								
	41		298.65	KCWA Tej.-Cas	Stub								
17F		Check No. 41	303.41										
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0								
		Check No. 42	304.99										
19	43	Alamo Powerplant	305.73	(Includes 81,338 AF generation, 0 AF plant bypass, and 9,082 AF Tehachapi bypass)	90,420								
			306.71	AVEK 305th Street West (T287)	1,309								
			308.05	AVEK 294th Street West (T267)	0								
	Check No. 43	309.70											
	44		311.84	LADWP Connection	0								
			313.50	AVEK 245th Street West (T269)	0								
	Check No. 44	314.81											
	45		314.93	AVEK 235th Street West (T270)	0								
			315.57	AVEK 225th Street West (T271)	0								
	Check No. 45	319.74											
20A	46		323.19	Antelope Valley-East Kern WA Fairmont (T272)	3,106								
				Mojave Water Agency Fairmont (T272)	126								
		Check No. 46	323.84										
				Reach 19 Total:	4,541								
	47	Check No. 47	326.77										
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	20								
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed								
	Check No. 48	330.82											
	49	Check No. 49	335.93										
20B	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	2,766								
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	0								
			340.92	AVEK WA-Temp (T387)	0								
	Check No. 50	341.51											
	51		342.06	AVEK WA-Temp (T386)	0								
	Check No. 51	342.07											
	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0								
	Check No. 52	343.74											
	53		346.98	Palmdale WD (T276) Temp.	1,415								
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	0								
21	Check No. 53	348.17											
		349.52	Palmdale WD (T394)		0								
	54	Check No. 54	350.25										
	55	Check No. 55	352.70										
	56	Check No. 56	354.76										
	57		354.97	AVEK WA-Delivered through Littlerock Creek ID (T278)	0								
			354.97	Palmdale WD (T276)	0								
			354.97	Palmdale WD (T391)	0								
22A	Check No. 57	356.93											
	58		357.60	AVEK 95th Street East (T279)	49								
			357.72	AVEK 96th Street East (T280)	64								
			359.76	AVEK East Side Treatment Plant (T281)	0								

**Table 31. Governor Edmund G. Brown California Aqueduct**  
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)		April 2011									
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending										
	No.	Structure	Mile		Table A	Rec.	Article 21	Article 14B	Local	Other	
22B	58	Pearblossom Pumping Plant	360.61		82,140	2 / 18	6	903	44	1 / 0	
	59	Check No. 59	366.09								
	60		366.50	AVEK Big Rock Siphon (T368)	0						
	61	Check No. 60	373.94								
	62	Check No. 61	379.00								
	63	Check No. 62	384.26								
	64	Check No. 63	389.20	Mojave Water Agency White Road 24" & 42" (T282)	18						
	65	Check No. 64	395.10								
	66	Check No. 65	400.32								
			401.10	Mojave Water Agency Morongo 24" & 42" (T284)	461						
23		Check No. 66	403.41								
		Mojave Siphon	405.58	Las Flores Ranch Exchange	0						
24		Mojave Siphon Powerplant	405.65		83,325	9,341	36,572	44	44	3/ 14,087	
		Silverwood Lake	407.65	MWA CS DAM (T288)	0						
				California State Park Silverwood (T288)	6						
			407.70	Crestline-Lake Arrowhead WA State Project Water (T289)	0						
		San Bernardino Intake Tunnel		Non-Project Water (T289)	44						
25		Devil Canyon Powerplant	412.73		83,592	4/ 4,301	38	0	0	0	
26A	28G	Devil Canyon Afterbay Control Structures	412.88	MWD-Rialto (T292)	0						
				MWD-Rialto (T293)	23,428						
				MWD-Rialto (T294)	37,475						
				Desert Water Agency Transfer (T293)	0						
				Coachella Valley WD Transfer (T293)	0						
				MWD EBX-1 (T290)	0						
				MWD EBX-1 (T291)	0						
				East Branch Extension	4,301						
				San Gabriel Valley MWD	0						
28H	28J	Santa Ana Valley Pipeline	425.46			4,431	157	2,098	38	0	
			433.06	MWD-SC Box Springs (T295)	4,431						
			440.05	MWD-SC Perris Bypass Pipeline (T296)	10,491						
28J		Lake Perris	442.00	MWD-SC (T297)	157	2,098	38	0	0	0	
				MWD-SC 54" & 78" (T299)	2,098						
			443.44	Calif. State Park							
				Lake Perris Parks & Rec. (T298)	0						
				MWD Total:	92,935	26,518	0	36,572	15,758	0	14,087

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ SWP water supplies from MWD to MWA for groundwater storage in the Mojave River Basin.

3/ Arvin Edison Recovery.

4/ Includes 2,451 AF to San Gabriel Valley MWD, 3,198 AF to San Bernardino Valley MWD, and 1,103 AF to San Gorgonio Pass WA.

**Table 32. Water Quality At Selected SWP Locations**

April 2011

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO <sub>3</sub>	40	139	38	39	42	45	46	47	55
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.004	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	<0.01	0.08	0.03	0.03	0.04	0.05	0.04	0.04	0.11
Calcium	mg/l	8	19	9	9	10	11	12	12	16
Chloride	mg/l as C	1.0	66.0	14.0	13.0	16.0	18.0	19.0	19.0	34.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Fluoride	mg/l	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/l	36.000	127.000	41.000	41.000	46.000	50.000	52.000	52.000	75.000
Iron	mg/l	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lead	mg/l as CaCO <sub>3</sub>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	20.000	4.000	4.000	5.000	5.000	6.000	6.000	8.000
Manganese	mg/l	<0.005	0.067	<0.005	0.014	0.008	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0	0	0	0	0	0	0	0
Organic Carbon, Dissolved	mg/l	NR	14.100	3.700	3.400	3.900	3.800	3.850	4.200	3.700
Organic Carbon, Total	mg/l as N	NR	15.40	3.80	3.60	3.90	3.90	4.30	NR	3.80
Phosphate-Ortho	mg/l as P	<0.01	0.36	0.05	0.04	0.04	0.04	NR	0.05	0.04
Phosphorus-Total	mg/l	0	0.56	0.10	0.08	0.07	0.11	0.09	0.07	0.07
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium	mg/l	3	61	13	13	16	17	18	18	30
Specific Conductance	µS/cm	86	560	157	155	176	193	188	188	305
Sulfate	mg/l	2	32	14	14	17	19	18	20	35
Total Dissolved Solids	mg/l	49	308	87	85	97	107	105	108	168
Turbidity	NTU	3	25	11	7	7	13	12	21	3
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

April 2011

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm										Cl in mg/l
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	6.20	4.98	158,461	158,461	119,406	0.22	0.12	0.15	0.13	0.21	0.19	0.20	0.63	0.24	75
2	6.60	5.15	153,007	155,734	113,739	0.22	0.12	0.15	0.13	0.21	0.19	0.20	0.65	0.22	86
3	6.40	4.83	145,164	152,211	111,022	0.22	0.12	0.15	0.13	0.22	0.20	0.19	0.66	0.22	89
4	6.29	5.28	147,251	150,971	108,279	0.22	0.12	0.15	0.13	0.22	0.20	0.19	0.68	0.22	93
5	6.43	4.89	145,680	149,913	107,511	0.23	0.12	0.15	0.13	0.21	0.20	0.20	0.70	0.22	100
6	6.41	4.80	139,980	148,257	102,634	0.22	0.12	0.14	0.13	0.20	0.20	0.20	0.71	0.22	98
7	6.41	4.81	128,523	145,438	91,854	0.21	0.11	0.15	0.13	0.19	0.21	0.19	0.81	0.21	103
8	6.24	4.71	120,922	142,373	84,119	0.21	0.11	0.15	0.14	0.19	0.21	0.18	0.90	0.20	102
9	6.23	4.71	108,390	138,598	75,409	0.21	0.11	0.15	0.14	0.19	0.21	0.18	0.91	0.20	89
10	5.83	4.45	97,490	134,487	66,229	0.21	0.11	0.15	0.14	0.19	0.20	0.18	0.92	0.19	87
11	5.44	4.31	91,316	130,562	57,613	0.20	0.11	0.15	0.14	0.19	0.20	0.17	0.92	0.19	98
12	5.48	4.29	87,476	126,972	53,967	0.20	0.12	0.15	0.15	0.18	0.20	0.17	0.92	0.19	95
13	5.56	4.33	83,491	123,627	50,677	0.20	0.12	0.15	0.15	0.18	0.20	0.17	0.91	0.18	96
14	5.41	3.97	80,010	120,511	46,948	0.21	0.12	0.16	0.15	0.18	0.20	0.17	0.91	0.12	98
15	5.61	4.03	75,804	117,531	43,145	0.21	0.12	0.16	0.15	0.18	0.19	0.16	0.91	0.18	97
16	6.10	4.31	72,195	114,698	40,036	0.21	0.12	0.16	0.15	0.18	0.19	0.16	0.89	0.17	97
17	6.61	4.58	68,445	111,977	37,596	0.20	0.12	0.16	0.15	0.17	0.19	0.16	0.88	0.16	97
18	6.81	4.62	66,034	109,424	35,638	0.20	0.12	0.16	0.15	0.17	0.19	0.17	0.87	0.16	107
19	6.93	4.68	63,848	107,026	33,921	0.19	0.12	0.15	0.15	0.17	0.18	0.17	0.86	0.17	106
20	7.01	4.86	62,667	104,808	33,263	0.18	0.12	0.16	0.16	0.17	0.18	0.17	0.87	0.17	102
21	6.98	4.71	63,251	102,829	34,021	0.18	0.12	0.16	0.16	0.17	0.18	0.18	0.85	0.17	94
22	6.44	4.53	62,489	100,995	35,158	0.18	0.11	0.15	0.16	0.17	0.18	0.18	0.85	0.17	84
23	6.10	4.54	63,455	99,363	37,696	0.17	0.11	0.15	0.16	0.16	0.18	0.17	0.84	0.17	84
24	5.86	4.57	61,327	97,778	40,577	0.17	0.11	0.13	0.15	0.16	0.17	0.17	0.84	0.17	84
25	5.31	4.24	70,028	96,668	40,752	0.16	0.10	0.12	0.15	0.15	0.17	0.16	0.86	0.17	70
26	5.19	3.93	69,191	95,611	39,358	0.16	0.10	0.13	0.15	0.15	0.17	0.17	0.81	0.18	66
27	5.16	3.89	66,907	94,548	38,694	0.15	0.10	0.14	0.15	0.15	0.17	0.18	0.79	0.17	59
28	5.28	3.91	62,043	93,387	38,665	0.16	0.10	0.14	0.15	0.15	0.16	0.17	0.75	0.18	58
29	5.47	3.70	60,497	92,253	37,948	0.16	0.10	0.13	0.15	0.15	0.16	0.17	0.74	0.19	54
30	5.22	3.66	61,858	91,240	36,377	0.16	0.10	0.13	0.14	0.15	0.16	0.17	0.67	0.18	58

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

**April 2011**

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 16, 2010	Diuron Metolachlor	0.32 0.40
California Aqueduct At Banks Pumping Plant	March 16, 2011	Simazine Diuron	0.06 0.33
O'Niell Forebay Outlet Check 13	March 16, 2011	Simazine Diuron	0.04 0.36
Delta Mendota Canal At McCabe Road	March 16, 2011	Simazine Diuron	0.02 0.40
California Aqueduct Near Kettleman City (Check 21)	March 15, 2011	Simazine Diuron	0.03 0.30
California Aqueduct At Near Highway 119 (Check 29)	March 14, 2010	Simazine Diuron	0.02 0.35
California Aqueduct at Tehachapi Afterbay (Check 41)	March 16, 2011	Simazine Diuron	0.03 0.32
California Aqueduct At Devil Canyon Headworks	March 16, 2011	Simazine Diuron	0.03 0.62

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

April 2011

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	8,146,160	0	401	449	1,886,280	1,886,280	57,331	831
2	7,588,163	0	453	443	1,884,976	1,884,976	71,578	883
3	7,231,367	0	452	439	1,414,464	1,414,464	66,929	951
4	8,872,974	0	436	444	1,259,232	1,259,232	100,707	860
5	9,334,809	0	425	456	1,261,496	1,261,496	181,629	873
6	8,736,827	0	435	449	1,263,360	1,263,360	204,211	936
7	8,548,023	0	2,451	432	1,477,176	1,477,176	211,231	922
8	9,517,695	0	454	426	2,091,472	2,091,472	204,300	945
9	9,524,152	0	479	429	2,474,200	2,474,200	196,114	957
10	9,540,729	0	509	462	3,100,408	3,100,408	213,558	960
11	9,555,205	0	1,794	452	2,641,216	2,641,216	215,738	933
12	7,093,339	0	1,707	428	2,486,560	2,486,560	221,791	912
13	6,215,462	0	1,843	426	2,251,968	2,251,968	237,304	913
14	4,069,659	0	2,609	428	2,694,064	2,694,064	225,057	925
15	6,863,681	0	3,926	437	2,061,616	2,061,616	200,218	934
16	7,155,797	0	4,163	477	1,854,032	1,854,032	172,600	908
17	7,004,569	0	5,159	453	1,854,224	1,854,224	177,841	899
18	7,241,036	0	6,169	1,782	1,856,608	1,856,608	171,470	858
19	9,701,692	0	2,392	1,891	1,857,960	1,857,960	176,589	838
20	11,308,517	0	472	436	1,858,112	1,858,112	163,547	776
21	10,985,832	0	4,426	7,028	1,858,112	1,858,112	177,159	820
22	11,803,286	0	3,521	2,217	2,686,240	2,686,240	191,089	944
23	12,664,839	0	5,478	4,598	3,527,440	3,527,440	188,605	845
24	12,634,600	0	7,499	5,859	3,522,592	3,522,592	170,165	903
25	12,269,532	11	4,262	3,567	525,784	525,784	189,012	882
26	12,370,523	0	4,187	4,355	266,536	266,536	185,412	846
27	10,524,602	0	10,465	21,328	3,207,072	3,207,072	184,723	843
28	10,129,823	0	8,665	19,087	3,880,832	3,880,832	214,902	871
29	9,381,735	0	10,867	23,574	3,662,760	3,662,760	199,018	855
30	9,562,685	0	14,346	28,128	2,421,432	2,421,432	223,965	792
Total	275,577,313	11	110,444	131,382	65,088,224	65,088,224	5,393,782	26,613

**Table 36. San Luis Field Division Energy Data**

(in kWh)

April 2011

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,267,742	1,003,742	0	0	20,284	20,284
2	1,310,407	1,046,407	0	0	20,009	20,009
3	1,298,630	1,034,630	0	0	19,877	19,877
4	1,154,045	890,045	0	0	15,719	15,719
5	1,237,820	973,820	0	0	14,718	14,718
6	1,396,094	1,132,094	0	0	15,862	15,862
7	1,613,687	1,349,687	0	0	16,819	16,819
8	1,603,886	1,339,886	0	0	15,422	15,422
9	1,578,852	1,314,852	0	0	16,159	16,159
10	1,292,090	788,090	0	0	19,932	19,932
11	1,270,523	774,523	0	0	21,153	21,153
12	1,273,401	777,401	0	0	19,349	19,349
13	1,521,423	1,025,423	0	0	21,978	21,978
14	1,244,581	771,581	0	0	22,198	22,198
15	1,519,965	1,023,965	0	0	21,527	21,527
16	1,375,520	879,520	0	0	20,460	20,460
17	1,291,156	787,156	0	0	19,591	19,591
18	1,318,140	822,140	0	0	19,954	19,954
19	1,430,384	934,384	0	0	21,384	21,384
20	1,533,049	1,037,049	0	0	21,692	21,692
21	1,818,682	1,322,682	0	0	21,934	21,934
22	1,801,683	1,433,683	0	0	21,186	21,186
23	1,626,674	1,258,674	0	0	20,581	20,581
24	1,391,996	1,031,996	0	0	20,020	20,020
25	1,241,611	873,611	0	0	20,680	20,680
26	1,222,204	854,204	0	0	21,549	21,549
27	1,766,513	1,398,513	0	0	21,461	21,461
28	1,936,451	1,568,451	0	0	21,560	21,560
29	1,821,820	1,453,820	0	0	21,769	21,769
30	1,362,814	994,814	865,491	865,491	5,500	5,500
Total	43,521,845	31,896,845	865,491	865,491	580,327	580,327

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Plant Energy Load Data**

(in kWh)

April 2011

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	7,355	18,437	40,687	38,106	40,742	881,069	951,928	2,095,104	7,810,614
2	9,619	25,857	37,634	34,885	38,103	1,056,438	1,115,278	2,444,112	8,900,010
3	14,349	37,953	51,603	48,129	52,236	1,016,782	1,126,881	2,457,653	9,041,706
4	13,382	34,674	34,921	32,631	35,447	769,336	823,721	1,769,647	6,446,736
5	26,163	68,837	40,049	37,395	41,062	756,965	764,854	1,630,134	6,060,096
6	31,078	81,659	41,753	39,351	42,298	941,335	970,549	2,126,542	7,753,455
7	33,644	86,705	41,067	37,786	41,300	790,315	775,683	1,643,191	5,859,027
8	28,515	75,148	36,506	34,408	38,252	876,056	923,161	1,969,143	7,104,348
9	24,107	59,803	63,401	59,922	64,125	1,240,198	1,311,385	2,896,333	10,711,251
10	11,197	27,232	50,521	46,677	51,136	1,024,272	1,163,979	2,609,365	9,667,215
11	17,417	43,180	28,850	27,085	28,538	931,826	988,056	2,144,439	7,821,657
12	24,589	60,775	38,633	35,507	38,449	878,598	933,035	2,030,743	7,353,504
13	25,586	63,039	38,857	37,406	39,631	956,216	1,001,462	2,189,715	7,996,077
14	28,162	71,730	58,489	52,495	58,769	689,240	694,129	1,471,756	5,208,003
15	23,525	58,877	37,324	33,791	38,319	1,167,016	1,197,243	2,647,469	9,595,476
16	23,375	60,541	48,542	44,875	50,104	1,094,114	1,106,833	2,429,504	8,764,335
17	19,638	48,919	51,377	47,492	52,131	913,158	990,770	2,194,445	8,145,414
18	19,218	46,804	44,503	42,378	46,499	1,252,701	1,363,788	3,001,020	11,228,085
19	22,676	55,773	38,478	35,850	40,431	1,226,957	1,320,853	2,893,726	10,644,561
20	28,766	74,502	68,860	64,892	70,526	1,288,937	1,396,271	3,023,933	10,859,157
21	25,466	67,796	50,345	47,536	52,172	1,298,374	1,351,940	2,924,416	10,590,534
22	27,733	71,833	52,740	49,007	53,964	1,276,229	1,370,407	2,990,009	11,059,794
23	28,648	73,206	45,158	41,947	47,183	1,297,811	1,412,437	3,103,859	11,607,894
24	29,427	78,102	45,108	42,106	46,150	1,159,344	1,401,604	3,128,576	11,585,079
25	33,715	87,908	49,918	45,913	51,650	1,206,704	1,338,133	2,922,909	10,744,731
26	33,777	86,852	50,731	47,470	52,883	1,172,788	1,377,893	2,966,282	10,860,642
27	31,729	79,618	45,923	43,143	48,241	1,151,491	1,229,497	2,665,157	9,826,785
28	28,362	71,416	53,711	49,305	55,433	1,373,398	1,446,917	3,148,024	11,545,740
29	25,919	66,962	60,275	56,890	61,851	1,375,495	1,481,422	3,206,467	11,713,356
30	29,788	77,935	62,997	59,082	64,943	1,341,781	1,442,902	3,175,623	11,791,737
Total	726,923	1,862,069	1,408,960	1,313,461	1,442,568	32,404,945	34,773,009	75,899,296	278,297,019

**Table 38. Southern Field Division Energy Data**

(in kWh)

April 2011

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	328,577	871,274	1,536,000	255,394	1,288,077	2,496,848	144,823	37,032	49,968	4,265
2	433,043	865,874	1,536,000	258,524	1,445,072	2,208,596	156,546	36,753	49,889	4,021
3	390,466	432,934	1,536,000	304,126	1,524,760	2,536,380	186,218	36,639	49,769	3,966
4	145,578	237,560	384,000	284,545	1,468,540	2,703,971	156,333	36,707	49,843	4,038
5	61,755	237,503	384,000	289,287	1,568,595	3,084,689	182,910	36,832	49,851	4,028
6	61,780	241,388	384,000	329,088	2,031,503	3,628,397	220,487	36,581	49,802	3,985
7	63,756	241,599	384,000	226,230	1,345,514	3,372,743	164,525	36,829	49,715	3,985
8	90,495	201,825	384,000	293,894	1,805,997	3,424,504	200,163	36,477	49,640	3,709
9	91,701	201,833	384,000	321,946	2,242,358	3,392,273	274,935	36,447	49,677	3,974
10	115,632	242,285	384,000	310,394	2,459,452	3,469,594	288,096	36,700	49,703	3,969
11	114,314	281,332	480,000	316,951	1,907,881	3,370,601	215,359	36,224	49,805	4,010
12	75,695	280,865	480,000	316,162	1,787,234	2,940,041	227,770	36,564	49,901	4,006
13	169,296	359,716	480,000	296,196	1,894,853	3,080,527	207,437	36,135	49,906	4,559
14	59,029	278,362	480,000	214,924	1,344,435	3,084,919	152,830	36,513	49,861	3,935
15	157,448	318,373	480,000	323,908	1,990,373	3,499,999	225,914	36,530	49,975	4,028
16	169,161	317,091	480,000	313,238	1,982,485	3,256,441	225,922	36,610	50,060	4,087
17	170,201	278,975	480,000	311,253	1,799,259	2,968,996	215,603	36,542	50,011	4,071
18	384,500	945,921	1,536,000	313,938	1,675,656	3,114,616	178,070	36,370	49,819	3,981
19	374,371	945,883	1,536,000	353,343	1,975,872	3,462,318	216,527	36,417	49,772	3,989
20	448,858	948,124	1,536,000	353,372	1,906,167	4,124,909	226,204	38,771	49,788	3,973
21	500,802	946,758	1,536,000	353,172	1,873,846	4,063,244	212,270	41,101	49,786	3,985
22	415,672	942,330	1,536,000	316,174	1,804,709	3,731,220	201,902	40,886	49,802	3,968
23	349,010	947,703	1,536,000	319,607	2,101,691	3,828,532	263,446	41,149	49,837	3,965
24	348,495	945,491	1,536,000	352,519	2,156,140	3,890,113	228,541	40,905	49,847	3,951
25	417,215	947,776	1,536,000	335,600	2,040,035	3,951,605	227,811	45,202	49,903	4,043
26	391,037	951,302	1,536,000	335,449	2,060,944	3,807,695	243,901	48,093	49,919	3,994
27	372,147	948,669	1,536,000	318,407	1,782,256	3,785,429	197,618	48,008	50,024	4,003
28	415,294	949,541	1,536,000	298,544	2,126,676	3,982,561	259,064	47,958	50,062	4,078
29	401,701	948,534	1,536,000	319,847	2,031,960	4,128,584	222,721	45,104	49,940	3,987
30	335,082	951,658	1,536,000	311,688	2,195,874	3,764,848	259,282	40,717	49,920	3,971
Total	7,852,108	18,208,476	30,624,000	9,247,719	55,618,213	102,155,191	6,383,228	1,172,798	1,495,791	120,523

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.